

ABSTRACT OF THE DISCLOSURE

A high copper alloy with good resistance to stress relaxation at temperatures of up to at least 150°C, consists, by weight, essentially of from 0.8% to 3% of iron, from 0.3% to 2% of nickel, from 0.6% to 1.4% of tin, from 0.005% to 0.35% phosphorous and the remainder copper and inevitable impurities. The alloy has an electrical conductivity in excess of 40% IACS and a yield strength of 70 ksi or higher at final gauge following a relief anneal. Over 75% of an imposed stress remains after exposure to 150°C for 3000 hours. The combination of good electrical conductivity, high strength and high stress relaxation resistance makes the alloys particularly suitable for under the hood automotive electrical connectors.

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